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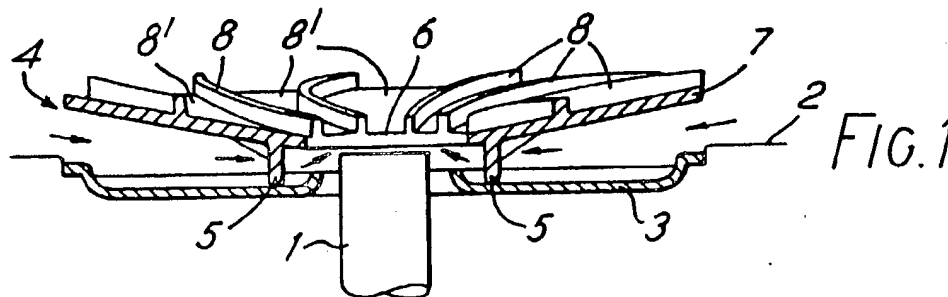
(56) Documents cited

GB 1593977	GB 0481578	GB 0370589
GB 0498915	GB 0446121	US 4059092

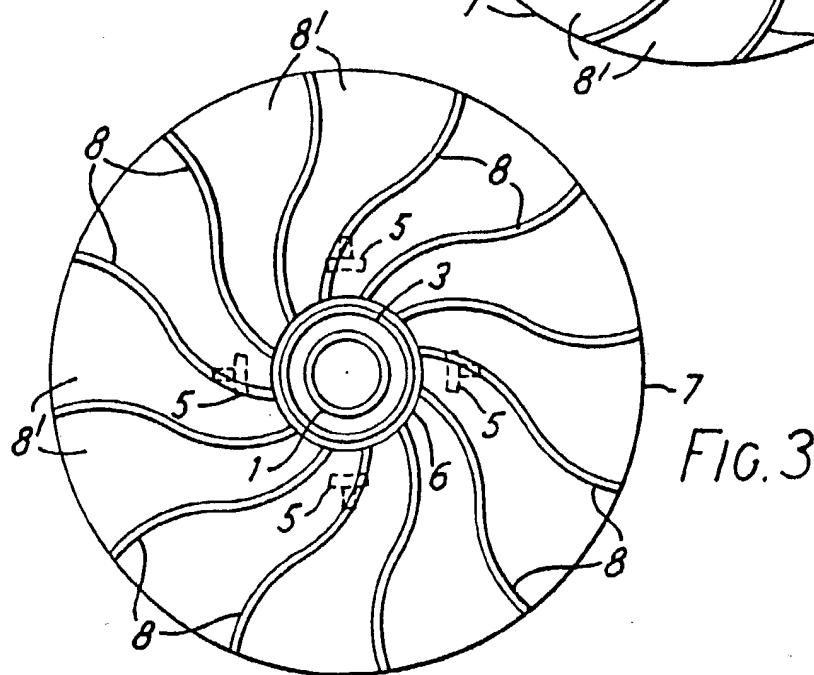
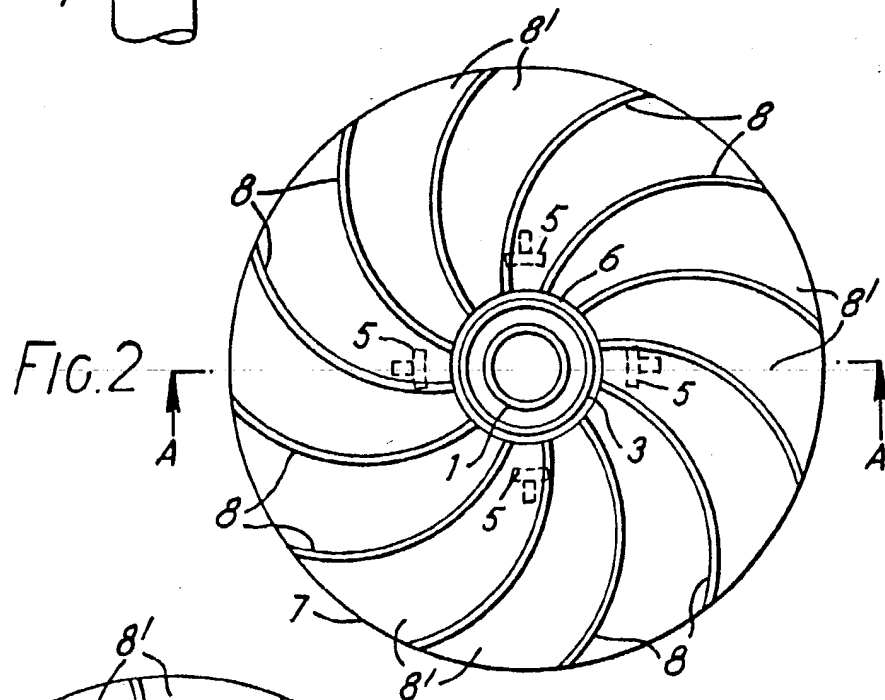
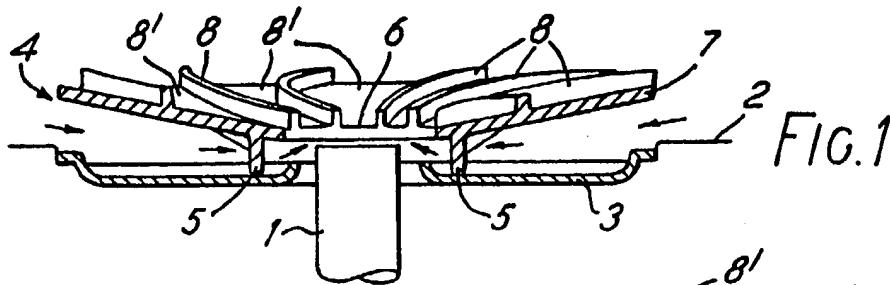
(58) Field of search  
F4W  
Selected US specifications from IPC sub-class F24C

(54) Utensil support for a gas cooker

(57) A utensil support 4 for a gas cooker, the support being of generally dish-shaped form and having an aperture 6 in a central region thereof, in use, to receive a gas burner 1, the upper surface of the support bearing a plurality of upstanding projections 8 forming therebetween guide channels 81 for the passage of gases from the gas burner 1, spacing means 5 being provided on the underside of the support 4 upon which the support stands.



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## SPECIFICATION

### Utensil support for a gas cooker

- 5 The present invention relates to a utensil support for a gas cooker.

Known cooker utensil supports for gas cookers usually leave a rather great gap between the utensil support and the burner resulting inevitably in appreciable loss of heat from the burner flame, and consequently loss of heating energy intended to cook food.

According to the present invention there is provided a utensil support for a gas cooker, the support being of generally dished form and having an aperture in a central region thereof, in use, to receive a gas burner, the upper surface of the support bearing a plurality of upstanding projections forming between guide channels for the passage of gases from the gas burner, spacing means being provided on the underside of the support upon which the support stands.

The invention will now be described further by way of example with reference to the accompanying drawings, in which:

Figure 1 is a cross-sectional view along the line A-A of Figure 2, of a utensil support in accordance with one embodiment of the invention;

Figure 2 is a plan view of the support shown in Figure 1; and

Figure 3 is a plan view of a utensil support in accordance with another embodiment.

Figure 1 shows a gas burner (1), a cooker surface (2), a drip tray (3) and the utensil support (4) which forms the subject of the present invention. The support 4, which is set on top of the drip tray (3), is of a metal pan of generally disc like form. The centre of the disc has a flame access aperture (6) and a plurality of curved upstanding projections (8) are provided on the disc surface. Four locating feet (5) are provided in the base of the support 4 upon which the support can rest upon the drip tray (3). The feet (5) are of sufficient height to enable the flame access aperture (6) to be suitably raised above the burner (1).

Such an arrangement enables air to be supplied to the gas emanating from burner (1), via the clearance existing between the support 4 and the saucepan (3) in the direction of the arrow shown in Figure 1. The resultant flame is guided by the channels formed between the projections (8) to form an irradiating vortex such that the flame does not flow underneath the support 4. This arrangement enables a uniformly distributed heating of the underside of the utensil support by means of a relatively smaller flame. Thus a substantial saving in gas consumption is possible.

In the above-described embodiment the projections (8) forming said channels (8)' are curved but they can of course take other

65 shapes. However to include 11/15/04, EAST Version: 2.0.1.4

the utensil support, the restriction against the outflowing flame can be increased by providing the said curved projections with an irradiating form. It is also possible to set the height of the curved projections (8) flush by raising the radially innermost height of the projections adjacent the flame access aperture (6).

To sum up, the invention provides a utensil support structured to prevent unnecessary waste of flame springing from a gas burner thereby greatly enhancing cooking efficiency. In addition, as it is made from metal (except the burner element) after the flame has extinguished residual heat will be released by irradiation to provide temperature conservation for prepared foods.

## CLAIMS

1. A utensil support for a gas cooker, the support being of generally dished form and having an aperture in a central region thereof, in use, to receive a gas burner, the upper surface of the support bearing a plurality of upstanding projections forming therebetween guide channels for the passage of gases from the gas burner, spacing means being provided on the underside of the support upon which the support stands.

2. A utensil support as claimed in claim 1 in which the support is of circular form in plan.

3. A utensil support as claimed in claim 1 or 2 in which the support is made from metal.

4. A utensil support as claimed in claim 1, 2 or 3, in which the spacing means comprises a plurality of feet.

5. A utensil support as claimed in any one of claims 1 to 4 in which the upstanding projections are curved.

6. A utensil support as claimed in any one of claims 2 to 5 in which the radially innermost ends of the projections are raised to make the top surface of the support flat.

7. A utensil support substantially as herein described with reference to and as illustrated in any one of the accompanying drawings.

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